



1

SEQUENCE LISTING

<110> NADKARNI, ANUPAMA K.
TRUEHEART, JOSHUA

<120> EXPRESSION OF G PROTEIN-COUPLED RECEPTORS WITH ALTERED
LIGAND BINDING AND/OR COUPLING PROPERTIES

<130> 61113 (50370)

<140> 09/362,286

<141> 1999-07-27

<150> 60/094,451

<151> 1998-07-27

<160> 48

<170> PatentIn Ver. 3.3

<210> 1

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
receptor sequence motif

<400> 1
Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
1 5 10 15
Ser Glu Asn Phe Arg Lys Arg Tyr Lys Gln Val
20 25

<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
amino acid sequence motif

<400> 2
Phe Arg Lys Arg
1

<210> 3

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
IL-8 receptor motif

<400> 3

Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile Tyr Ala Phe Ile
1 5 10 15

Gly Gln Asn Phe Arg Asn Gly Phe Leu Lys Met
20 25

<210> 4

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
amino acid sequence motif

<400> 4

Phe Arg Asn Gly
1

<210> 5

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
galanin receptor motif

<400> 5

Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
1 5 10 15

Ser Glu Asn Phe Arg Lys Ala Tyr Lys Gln Val
20 25

<210> 6

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
amino terminal domain conserved sequence motif

<400> 6

Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly
1 5 10

<210> 7
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 amino terminal domain conserved sequence motif

<400> 7
 Leu Leu Leu Leu Gly Ala Gly Glu
 1 5

<210> 8
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 G1 region conserved sequence motif

<400> 8
 Gly Ser Gly Glu Ser Gly Asp Ser Thr
 1 5

<210> 9
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 GPA1 amino terminal sequence motif

<400> 9
 Gln Ala Arg Lys Leu Gly Ile Gln
 1 5

<210> 10
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 G alpha conserved sequence motif

<400> 10
 Asp Val Gly Gly Gln
 1 5

<210> 11
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 11
 ccccatgga agtaaacgta tggaatatg

29

<210> 12
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 12
 ccctctagag atttgaaggc acgttgg

27

<210> 13
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 IL-8 fusion junction

<400> 13
 Leu Lys Arg Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile
 1 5 10

<210> 14
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 MGSA fusion junction

<400> 14
 Leu Lys Arg Ala Ser Val Ala Thr Glu Leu Arg Cys Gln Cys Leu
 1 5 10 15

<210> 15
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
NAP2 fusion junction

<400> 15

Leu Lys Arg Ala Glu Leu Arg Cys Met Cys Ile
1 5 10

<210> 16

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16

ttaagcgtga ggcagaagct tctgctaagg aattgagatg tcaatgtatt aagactt 57

<210> 17

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17

actctaagcc attccatcca aagttcatta aggaattgag agttattgaa tctggtcca 59

<210> 18

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 18

cattgtgcta aactgaaat tattgttaag ttgtctgatg gtagagaatt gtgtttggat 60

<210> 19

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19

ccaaaggaaa actgggttca aagagttgtt gaaaagttct tgaagagagc tgaaaactct 60
tga 63

<210> 20
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 20
 tagagtaagt cttatacat tgacatctca attccttagc agaagcttct gcctcacgc 59

<210> 21
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 21
 acaatgtgga ccagattcaa taactctcaa ttccttaatg aactttggat ggaatggct 59

<210> 22
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 22
 ctttggatcc aaacacaatt ctctaccatc agacaactta acaataattt cagtgttagc 60

<210> 23
 <211> 61
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 23
 gatctcaaga gttttcagct ctcttcaaga acttttcaac aactctttga acccagtttt 60
 c 61

<210> 24
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 24
 ccgcttaagc gttctgctaa ggaattgaga tgtc 34

 <210> 25
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

 <400> 25
 aagtatattg tattttgtac gagc 24

 <210> 26
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 26
 ttaagcgtgc gtccgttgct acagaattga ggtgtcaatg tctacaaact ttgcaa 56

 <210> 27
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 27
 ggtatccacc caaagaacat tcagtcagtt aacgttaagt cccaggtcc acactgtgc 59

 <210> 28
 <211> 57
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 28
 tcagactgaa gtcatagcta cattaaagaa tggtcgtaaa gcctgtttaa atcctgc 57

 <210> 29
 <211> 58
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29

atccccaata gtaaagaaaa tcatcgaaaa gatgttgaat agtgataaat ccaattaa 58

<210> 30

<211> 58

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 30

gatcttaatt ggatttatca ctattcaaca tcttttcgat gattttcttt actattgg 58

<210> 31

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 31

ggatgcagga tttaaacagg ctttacgacc attctttaat gtagctatga cttcagt 57

<210> 32

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32

ctgagcacag tgtggacctg gggacttaac gttactgac tgaatgttct ttgggtgga 59

<210> 33

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 33

taccttgcaa agtttgtaga cattgacacc tcaattctgt agcaacggac gcacgc 56

<210> 34
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 34
 ttaagcgtgc tgaattgaga tgtatgtgta tcaagaccac ctctggtatc caccc 55

<210> 35
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 35
 aaagaacatc caatctttgg aagttatcgg taagggtact cactgtaacc aagtt 55

<210> 36
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 36
 gaagttatcg ctaccttgaa ggacggtaga aagatttggt tggaccaga cgctc 55

<210> 37
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 37
 caagaatcaa gaagatcggt caaaagaagt tggctgggtga cgaatctgct gacta 55

<210> 38
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 38
gatctagtca gcagattcgt caccagccaa cttcttttga acgatcttct tgatt 55

<210> 39
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 39
cttggagcgt ctgggtccaa acaaattctt ctaccgtcct tcaaggtagc gataa 55

<210> 40
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 40
cttcaacttg gttacagtga gtacccttac cgataacttc caaagattgg atgtt 55

<210> 41
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 41
ctttgggtgg ataccagagg tggctttgat acacatacat ctcaattcag cacgc 55

<210> 42
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide primer

<400> 42
gtgactggtc tgccatggag ctggcggtcg ggaacct 37

<210> 43
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 43
 cgcgatccc acatgagtac aattggt 27

<210> 44
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 44
 ctgaaaattt caggaagaga tataaacaag tgttcaag 38

<210> 45
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 45
 cttgaacact tgtttatatc tcttcctgaa attttcag 38

<210> 46
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 46
 cccaagcttg ccaccatgga agtaaacgta tg 32

<210> 47
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide primer

<400> 47
 cccctcgagc tagagatttg aaggcacgtt 30

<210> 48
 <211> 355
 <212> PRT
 <213> *Oryctolagus cuniculus*

<400> 48
 Met Glu Val Asn Val Trp Asn Met Thr Asp Leu Trp Thr Trp Phe Glu
 1 5 10 15
 Asp Glu Phe Ala Asn Ala Thr Gly Met Pro Pro Val Glu Lys Asp Tyr
 20 25 30
 Ser Pro Cys Leu Val Val Thr Gln Thr Leu Asn Lys Tyr Val Val Val
 35 40 45
 Val Ile Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Val
 50 55 60
 Leu Met Leu Val Ile Leu Tyr Ser Arg Ser Asn Arg Ser Val Thr Asp
 65 70 75 80
 Val Tyr Leu Leu Asn Leu Ala Met Ala Asp Leu Leu Phe Ala Leu Thr
 85 90 95
 Met Pro Ile Trp Ala Val Ser Lys Glu Lys Gly Trp Ile Phe Gly Thr
 100 105 110
 Pro Leu Cys Lys Val Val Ser Leu Val Lys Glu Val Asn Phe Tyr Ser
 115 120 125
 Gly Ile Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile
 130 135 140
 Val His Ala Thr Arg Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe
 145 150 155 160
 Ile Cys Leu Gly Ile Trp Ala Leu Ser Leu Ile Leu Ser Leu Pro Phe
 165 170 175
 Phe Leu Phe Arg Gln Val Phe Ser Pro Asn Asn Ser Ser Pro Val Cys
 180 185 190
 Tyr Glu Asp Leu Gly His Asn Thr Ala Lys Trp Arg Met Val Leu Arg
 195 200 205
 Ile Leu Pro His Thr Phe Gly Phe Ile Leu Pro Leu Leu Val Met Leu
 210 215 220
 Phe Cys Tyr Gly Phe Thr Leu Arg Thr Leu Phe Gln Ala His Met Gly
 225 230 235 240
 Gln Lys His Arg Ala Met Arg Val Ile Phe Ala Val Val Leu Ile Phe
 245 250 255
 Leu Leu Cys Trp Leu Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu
 260 265 270

